

TRANSMITTAL

STATE OF UTAH
DIVISION OF WATER QUALITY
DEPARTMENT OF ENVIRONMENTAL QUALITY

288 NORTH 1460 WEST P.O. BOX 144870 SALT LAKE CITY, UTAH 84114-4870



Telephone:	(801) 538-6146	Facsimile:	(801) 538-6016
	MAIL	DATE:	9-23-97
	FAX		
TO:	Tom Munson	FROM:	Mark Novak
	DOGM		
		PHONE #:	538 6146
ī			
PHONE #:			
We are please	d to provide the following to you:		
ITEM:			
FAX #:	359 3940	No. of Page	s Including Cover Sheet: 3
	For your action For your information Per previous conversation on		
	Per your/our correspondence dated		·····
MESSAGE:	Analytical results	From Dru	m Mine
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	(11)		
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Division of Water Quality

08/28/97 10:41

1997 Lab Analysis Report

ADH Page:

2

Storet No:

Sample Source: Description:

DRUM MINE HEAP 4

Lab Code:

C

Lab Number: 9705292 June

Sample Date:

11 , 1997

Sample Time:

1220

Sample Type:

04

Comment: PH

pH should be performed as a field test.

Field Tests

Flow, GPM

0.5

Laboratory Analyses			
T. Sus. Solids, mg/l	14.4	NO2+NO3, N, mg/1	28.1
Cyanide, mg/l	0.195	D-Calcium, mg/l	35.7
D-Magnesium, mg/l	13.8	D-Potassium, mg/l	5.3
D-Sodium, mg/l	687.0	Bicarbonate, mg/l	210
Carbon Dioxide, mg/l	1	Carbonate, mg/l	0
Chloride, mg/l	712.5	Hydroxide, mg/l	0
Sulfate, mg/l	270.5	T. Alk/CaCO3, mg/l	172
T. Hdns/CaCO3, mg/l	145.9	Turbidity, NTU	73.2
Sp. Cond. umhos/cm.	3468	TDS @ 180 C, mg/l	2172
T-Aluminum, ug/l	9600	T-Arsenic, ug/l	38.0
T-Barium, mg/l	0.092	T-Cadmium, ug/l	<1
T-Chromium, ug/1	9.0	T-Copper, ug/l	<12.0
T-Iron, mg/l	1.91	T-Lead, ug/l	8.0
T-Manganese, $\mathtt{ug}/1$	54.0	T-Mercury, ug/l	<0.2
T-Selenium, ug/l	12.0	T-Silver, ug/l	<2.0
T-Zinc, ug/l	46.0	CO3 Solids	103
Cyanide H+, mg/l	0.031		

Division of Water Quality

08/28/97 10:41

1997 Lab Analysis Report

ADH Page:

Storet No: Sample Source:

Description: DRUM MINE HEAP 2

Lab Code:

C

Lab Number: 9705293

Sample Date: June

11 , 1997

Sample Time: 1308 Sample Type: 04

Comment: PH

pH should be performed as a field test.

. Sus. Solids, mg/l	34.8	NO2+NO3, N, mg/l	37.91
Cyanide, mg/l	0.191	D-Calcium, mg/l	31.6
D-Magnesium, mg/l	19.7	D-Potassium, mg/l	8.6
D-Sodium, mg/l	1120.0	Bicarbonate, mg/l	234
Carbon Dioxide, mg/l	1	Carbonate, mg/l	0
Chloride, mg/l	1185.0	Hydroxide, mg/l	0
Sulfate, mg/l	638.98	T. Alk/CaCO3, mg/l	192
r. Hdns/CaCO3, mg/l	159.9	Turbidity, NTU	73.2
Sp. Cond. umhos/cm.	5502	TDS @ 180 C, mg/l	3462
r-Aluminum, ug/l	2200	T-Arsenic, ug/l	30.0
r-Barium, mg/l	0.04	T-Cadmium, ug/l	<1
r-Chromium, ug/l	<5.0	T-Copper, ug/l	29.0
r-Iron, mg/l	0.779	T-Lead, ug/l	<3.0
r-Manganese, ug/l	38.0	T-Mercury, ug/l	<0.2
r-Selenium, ug/l	16.2	T-Silver, ug/l	<2.0
r-Zinc, ug/l	49.0	CO3 Solids	115
Cyanide H+, mg/l	0.082		



Michael O. Leavitt Governor Dianne R. Nielson, Ph.D. Executive Director Don A. Ostler, P.E.

State f Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

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DIV. OF OIL, GAS & MINE 16

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Don A. Ostler, P.E.
Executive Secretary

September 10, 1997

Mr. Ed King Jumbo Mining Co. 6305 Fern Spring Cove Austin, TX 78730

Dear Mr. King:

Subject: Ground Water Discharge Permit Application for the Drum Mine

We have reviewed your response to our letter of July 18, 1997, which we received by fax on September 2, 1997. The ground water discharge permit, when issued, will include requirements for both planned and past operations. The compliance schedule for the permit will require immediate actions to address environmental problems at the Drum Mine site associated with facilities for which you are responsible. In particular, the old leach pads for which Jumbo Mining is responsible must be closed in such a way that there will be no significant long term discharge of contaminants to the subsurface. A cap over the leach pads to minimize infiltration will be required unless you can demonstrate that a less-protective design is justified. To date you have failed to propose an acceptable plan for development of adequate information upon which this demonstration can be made.

Because we anticipate this permit will require significant staff time to review plans for reclamation and related studies, we believe that the costs we will incur will not be compensated by the standard permit fee. Therefore, we will assess fees for this project based on time needed for staff review, at a rate of \$60 per hour. You will be billed periodically for staff time spent on this project. The time for which you will be billed for will begin to accrue from the date of this letter and includes all time spent reviewing and drafting correspondence, technical reports, meetings and the actual writing of the permit.

Upon your concurrence with the above, we will begin preparing a draft permit based on the information we have on hand at this time. In order to facilitate the issuance of this permit please respond to this letter within 30 days of your receipt of this letter. If you would like to discuss any issues involved in developing this permit please contact Mark Novak of this office.

Sincerely,

Don A. Ostler, P.E.

Director

DAO:mtn/fb

cc: Wayne Hedberg, DOGM

Ron Teseneer, BLM Fillmore Office Roger Foisy, District Engineer Central Utah Health Dept.

Tom Mitchell, Attorney General

K/WQ\PERMITS\DFREDERI\WP\UMPARES.LTR FILE:JUMBO MINING, DRUM MINE

